

WHAT IS CLAIMED IS:

1. A tire pump comprising:

a hollow barrel having a transverse through hole disposed at a bottom side
5 thereof and a top end cap provided at a top side thereof;

a pump plunger having a bottom end fixedly mounted with a pump piston
and inserted slidably into said barrel, and a top end extended out of said top end cap
and provided with a handle;

a valve tube mounted in the transverse through hole of said barrel and
10 extended out of two distal ends of the transverse through hole of said barrel, said valve
tube having a big air passage inwardly extended from a first end thereof, a small air
passage inwardly extended from a second end thereof to said big air passage, a through
hole in communication between said big air passage and an inside space of said barrel,
an air hole in communication between said small air passage and the inside space of
15 said barrel;

a regulating valve assembly mounted in said big air passage and being
capable of blocking the communication between said big air passage and said small air
passage and the communication between said barrel and said big air passage with a
predetermined pressure;

20 an air tube mounted in the second end of said valve tube and communicated
to said small air passage;

an air nozzle connected to an end of said air tube remote from said valve
tube;

an one-way air valve mounted in between said air nozzle and said air hole for
25 enabling air to passage from said barrel to said air nozzle and stopping air from

flowing in a reversed direction; and

an air whistle mounted in an end of said regulating valve assembly for producing sound upon flowing of a flow of air through said big air passage to the outside of said valve tube.

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2. The tire pump as claimed in claim 1, wherein said regulating valve assembly comprises a regulating tube, said regulating tube having one end closed and stopped at one end of said small air passage to block said small air passage, two O-rings mounted on a periphery of said regulating tube near two distal ends of said
10 regulating tube and peripherally pressed on an inside wall of said valve tube, a through hole, and an O-ring mounted on the periphery of said regulating tube and peripherally pressed on the inside wall of said valve tube between the through hole of said barrel and the through hole of said regulating tube.

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3. The tire pump as claimed in claim 2, wherein said regulating valve assembly further comprises a regulating knob mounted in one end of said big air passage remote from said small air passage, and a spring member mounted inside said valve tube and stopped between said regulating knob and said regulating tube.

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4. The tire pump as claimed in claim 3, wherein said air whistle is formed of a reed mounted on said regulating knob.

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5. The tire pump as claimed in claim 1, further comprising two seal rings mounted on a periphery of said valve tube near two distal ends of said valve tube and at two opposite sides relative to the through hole and air hole of said air tube and

peripherally pressed on a peripheral wall of said transverse through hole of said barrel.

6. The tire pump as claimed in claim 1, wherein said barrel has a bottom side mounted with a base.

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7. A tire pump comprising:

a barrel having an inside space;

a pump plunger having a bottom end fixedly mounted with a pump piston that is slidably inserted into the inside space of said barrel and a top end extended out
10 of said barrel and provided with a handle;

an air tube connected to an end of said barrel in air communication with the inside space of said barrel;

an air nozzle provided at an end of said air tube remote from said barrel;

a regulating chamber defined in between said barrel and said air nozzle and
15 provided with a relief port;

a regulating valve assembly mounted in said regulating chamber, said regulating valve assembly having a regulating tube movable in said regulating chamber between a sealing position and a relief position; and

an air whistle mounted in said relief port for producing a sound when said
20 regulating tube shifted to said relief position where a flow of air passes from said inside space of the barrel to said relief port through said regulating chamber.

8. The tire pump as claimed in claim 7, wherein said barrel comprises a transverse through hole in a bottom side thereof in air communication with the inside
25 space of said barrel, and a valve tube mounted in said transverse through hole, said

valve tube having two distal ends respectively extended out of said transverse through hole, and an air hole in air communication with the inside space of said barrel; said air tube has an end connected to one of the distal ends of said valve tube in air communication with said air hole and the inside space of said barrel.

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9. The tire pump as claimed in claim 8, further comprising a one-way valve mounted in between said air hole of the valve tube and said air nozzle.

10. The tire pump as claimed in claim 8, further comprising a one-way valve
10 mounted in said valve tube corresponding in location to said air hole of the valve tube.

11. The tire pump as claimed in claim 8, wherein said valve tube has a small air passage inwardly extended from the one of the distal ends thereof, and a big air passage inwardly extended from the other one of the distal ends thereof to said small
15 air passage; said air tube has the end connected to the one of said distal ends of said valve tube in air communication with said small air passage; said valve tube has a through hole in air communication between said big air passage and the inside space of said barrel; the air hole of said valve tube is disposed in air communication between said small air passage and the inside space of said barrel.

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12. The tire pump as claimed in claim 11, further comprising two seal rings mounted on a periphery of said valve tube near said two distal ends of said valve tube and at two opposite sides relative to the through hole and air hole of said valve tube and peripherally pressed on an inside wall of said transverse through hole of said
25 barrel.

13. The tire pump as claimed in claim 11, wherein said big air passage forms said regulating chamber; said regulating valve assembly is mounted in said big air passage; said regulating tube has a close end disposed close to said small air passage,
5 an open end disposed remote from said small air passage, and two O-rings mounted on a periphery thereof near two distal ends thereof and peripherally pressed on an inside wall of said valve tube; said regulating tube has a through hole, and a seal ring mounted on the periphery thereof and peripherally pressed on the inside wall of said valve tube between the through hole of said valve tube and the through hole of said
10 regulating tube, said seal ring being moved to or over the through hole of said valve tube for enabling air to pass through the through hole of said valve tube and the through hole of said regulating tube when shifting said regulating tube to said relief position.

15 14. The tire pump as claimed in claim 13, wherein said regulating valve assembly comprises a regulating knob mounted in an end of said big air passage, and a spring member mounted inside said valve tube and stopped between said regulating knob and said regulating tube.

20 15. The tire pump as claimed in claim 14, wherein said big air passage has the end forming said relief port; said air whistle is mounted on said regulating knob for producing a sound upon flowing of a flow of air through said big air passage to the outside of said valve tube.

25 16. The tire pump as claimed in claim 7, wherein said air whistle is a reed.

17. The tire pump as claimed in claim 7, wherein said barrel has a bottom side mounted with a base.